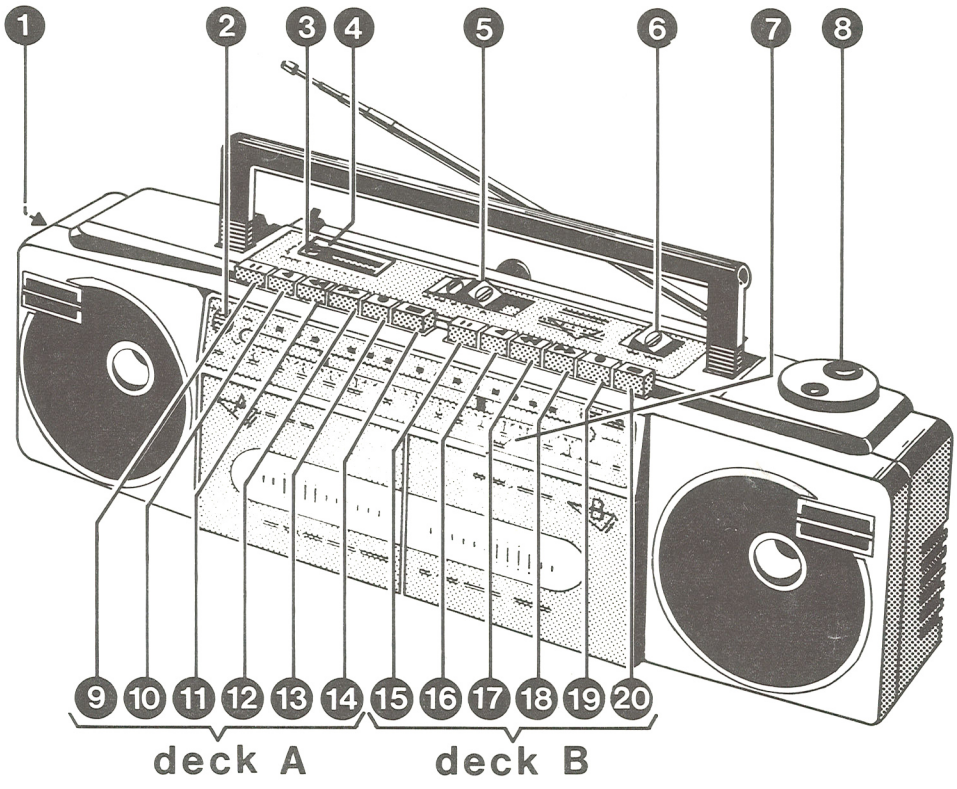
Stereo radio recorder D8078

00L/00R/05L/05R

Service
Service
Service

For repair information of the cassette mechanism see Service Manual of "Recorders tape deck RX-1" and "Recorders tape deck RX-2".

Service Manual



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Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

"Pour votre sécurité, ces documents soivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Subject to modification
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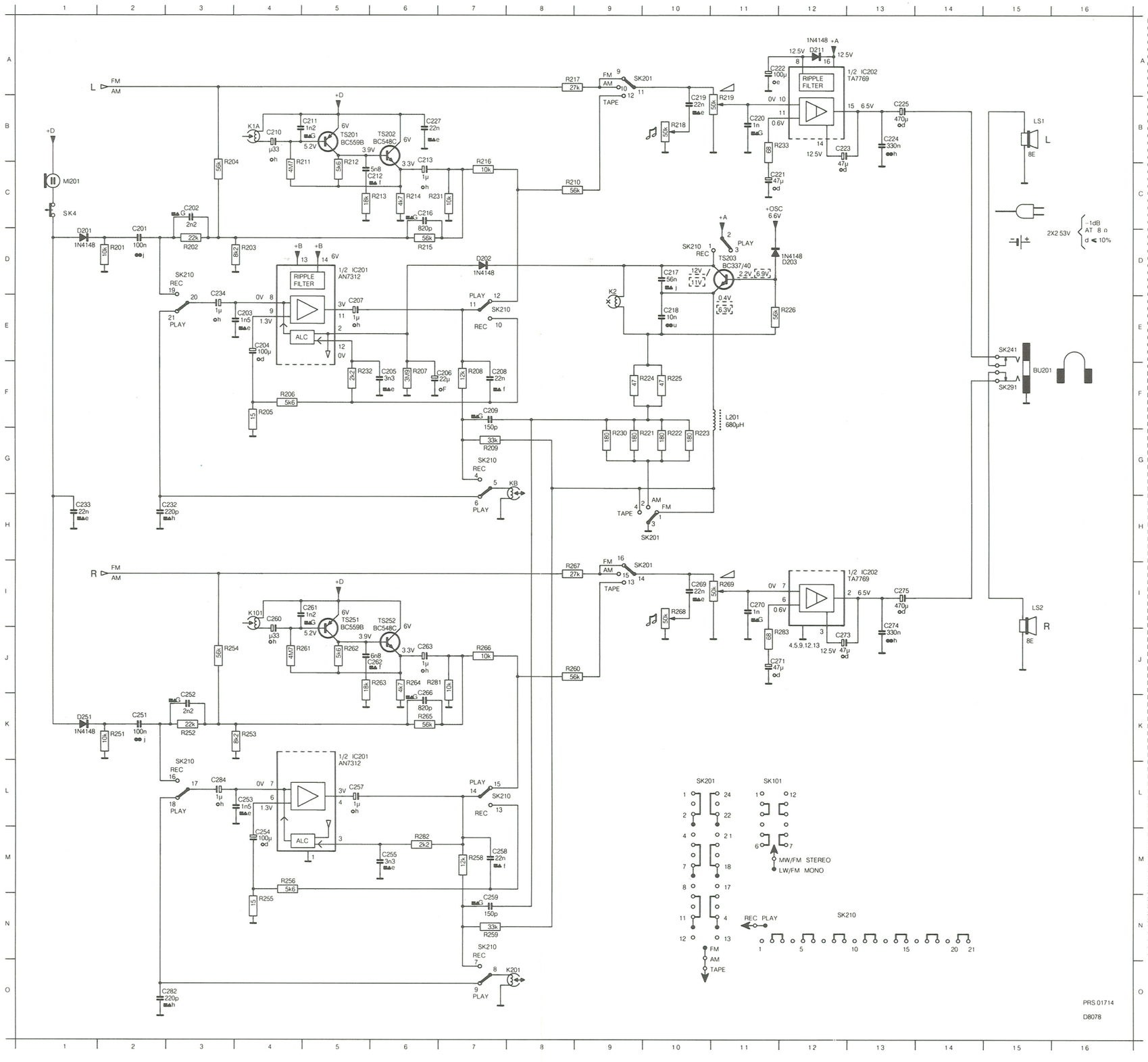

FM
AM
TAPE
+D
+A
+B
+OSC
6.6V
MI201
SK4
D201 1N4148
D202 1N4148
D203 1N4148
D211 1N4148
D251 1N4148
K1A
K2
KB
K101
K201
SK201
SK210
SK241
SK291
SK101
BU201
LS1
LS2
8E
2X2.53V
-1dB AT 8 Ω d < 10%
TS201 BC559B
TS202 BC548C
TS251 BC559B
TS252 BC548C
TS203 BC337/40
1/2 IC201 AN7312
1/2 IC202 TA7769
RIPPLE FILTER
ALC
L201 680µH
MW/FM STEREO
LW/FM MONO
REC PLAY
PRS 01714
D8078

| | | |

1		"Headphone"	BU201
2		"Electret mic"	Mi201
3		"Volume"	R219/R269
4		"Tone"	R218/R268
5	Tape/AM/FM	"Mode"	SK201
6	MW/FM stereo LW/FM mono	"Band"	SK101
7		"Stereo indicator"	D181
8		"Tuning"	C101

Deck A

9		"Pause"	
10	◁	"Play"	SK1-A, SK4
11	◁◁	"F.FWD"	
12	▷▷	"Rewind"	
13	A▷▷B	"Cont-play"	
14		"Stop, eject"	

Deck B

15		"Pause"	
16	◁	"Play"	SK1-B
17	◁◁	"F.FWD"	
18	▷▷	"Rewind"	
19		"Rec"	
20		"Stop, eject"	

SPECIFICATION (minimum values)

V⎓	: 9 V (6×R20)
	: 220 V 50/60 Hz : (240 V for /05) For adaption see wiring diagram
IF-FM	: 10.7 MHz ± 90 kHz
IF-AM	: 468 kHz ± 1 kHz
FM	: 87,5-108 MHz { + 0.5 MHz / − 0.3 MHz
MW	: 520-1606 kHz
LW	: 148.5-283.5 kHz

Tape speed : 4.76 cm/sec. ± 2% (15-35 C°)

Wow and flutter : ⩽ 0.35% Typ 0.18%

Freq. response (overall within 8 dB)
Ferro (FM/tape) : 250-6300 Hz

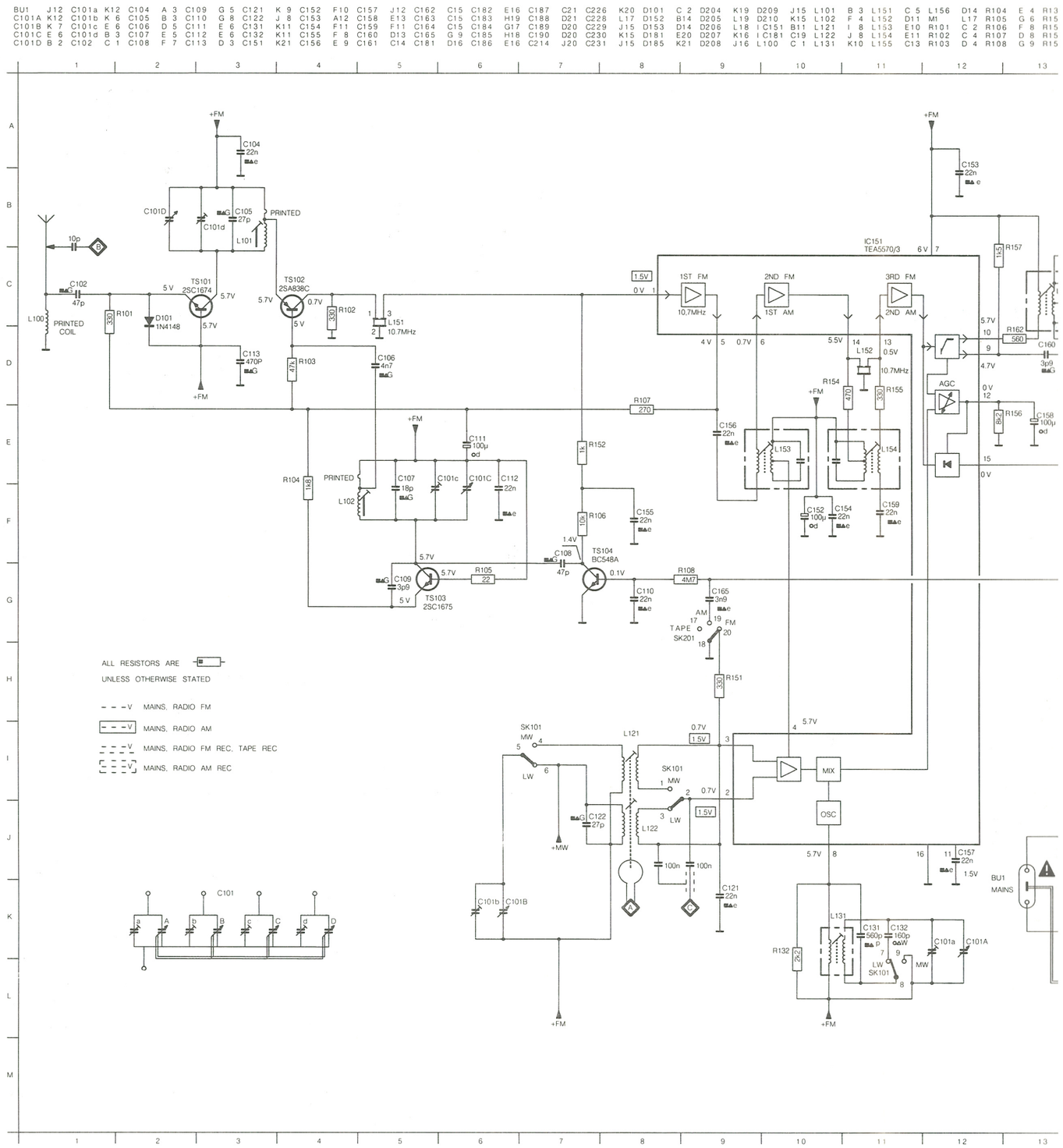
Output values

Headphone output/30-600Ω : BU 201

Adjustment	Cassette	Recorder in position	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Tape speed	3150 Hz of SBC420	PLAY Tape	–	BU201	Wow-and flutter meter	Preset in motor	*a 4.76 cm/s
Azimuth R/P head	8 kHz of SBC420	PLAY Tape	–	BU201	mV-meter	Left screw R/PB head	Max. output and outp. L ≈ outp. R

*a The maximum permissible speed deviation is 2%. Moreover, the wow-and-flutter value can be read. This value should not exceed 0.35%

SBC420 = 4822 397 30071



GB
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

F
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

SK1-B

Adjust to

*a
4.76 cm/s

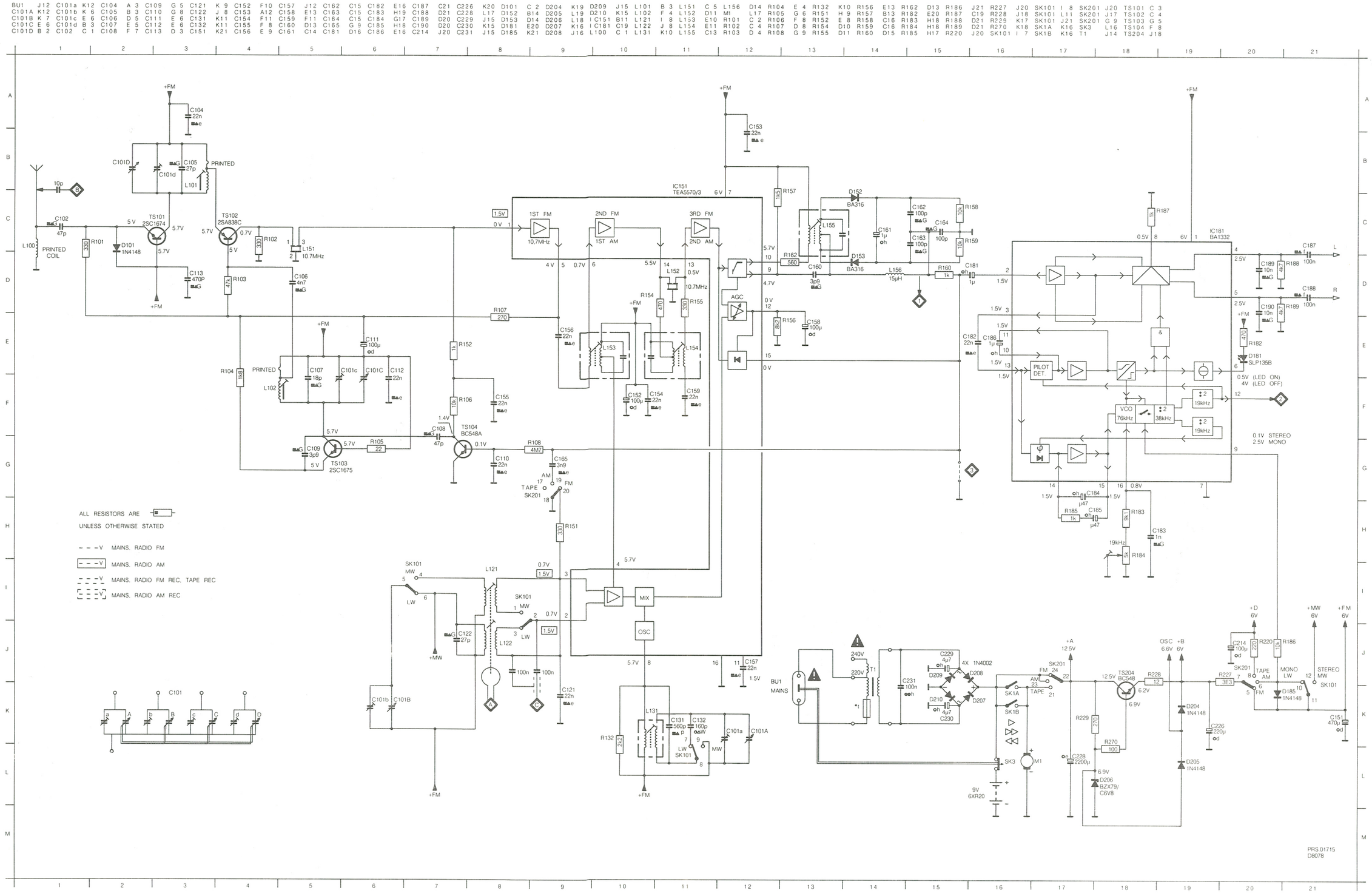
ax. output and
tp. L ≈ outp. R

%

)0 Hz

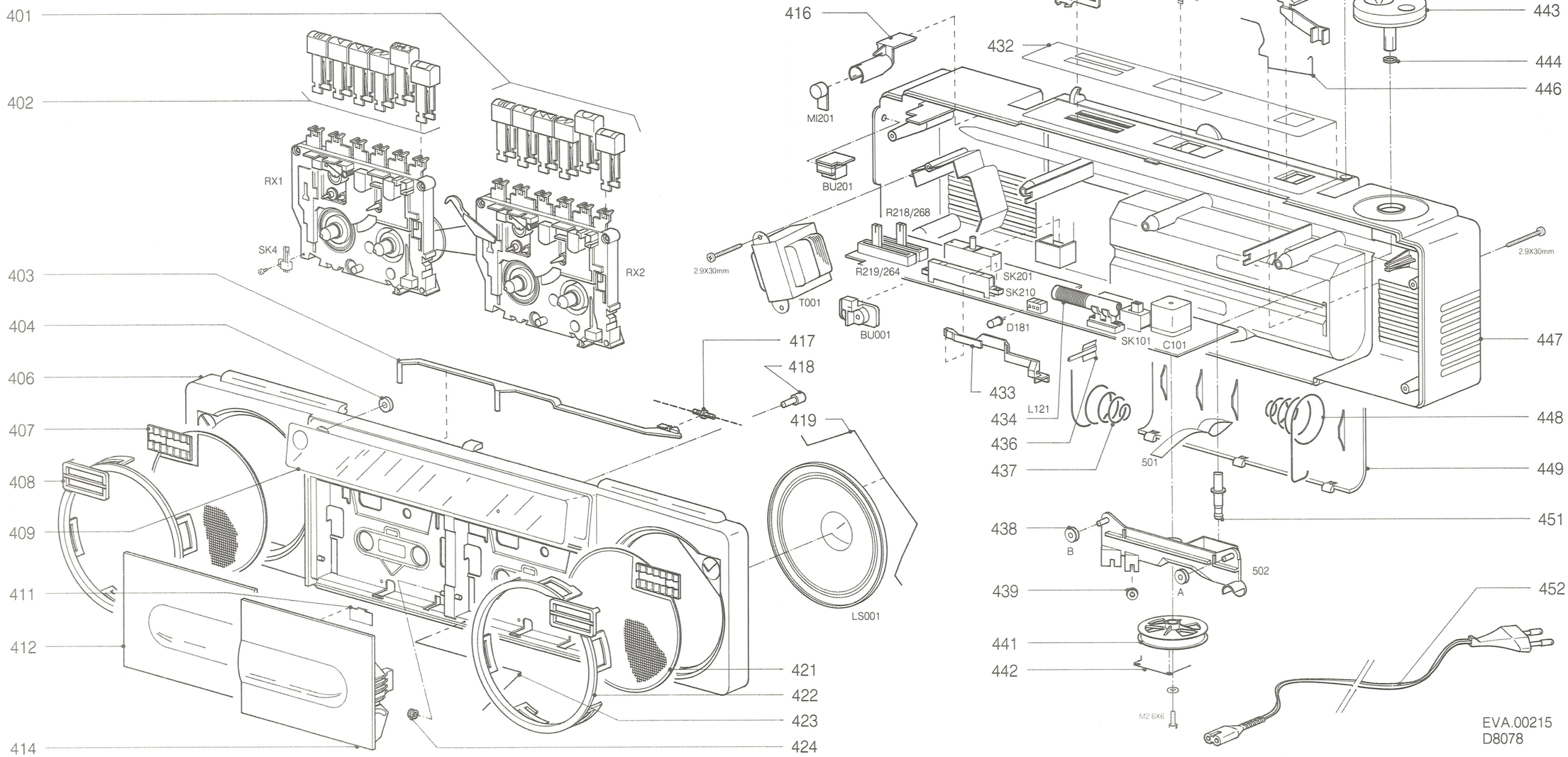
rheitsvorschriften zu
rf nicht verändert werden
erwenden.

chio venga rimesso nelle
di ricambiago identici a



401	4822	410	25424		417	4822	402	20095		433	4822	404	10666		
402	4822	410	25425		418	4822	462	41066		434	4822	158	60519		
403	4822	450	81037		419	4822	492	63551		436	4822	492	62234		
404	4822	532	51711		421	4822	458	20128		437	4822	492	63095		
406	4822	423	50821	for/--R	422	4822	460	10812		438	4822	528	80727		
406	4822	423	60108	for/--L	423	4822	492	63552		439	4822	528	50116		
407	4822	458	20127		424	4822	325	80342		441	4822	528	40244		
408	4822	460	10811		426	4822	303	30296		442	4822	492	51523		
409	4822	333	40333		427	4822	498	10255	for/--R	443	4822	413	41353		
411	4822	492	62334		427	4822	498	10257	for/--L	444	4822	492	51374		
412	4822	443	61961	for/--R	428	4822	411	61279		446	4822	492	63549		
412	4822	443	61988	for/--L	429	4822	411	61278		447	4822	420	60103	for/--R	
414	4822	443	61962	for/--R	431	4822	411	61277		447	4822	420	60104	for/--L	
414	4822	443	61989	for/--L	432	4822	459	50432	for/--R	448	4822	492	62233		
416	4822	404	10664		432	4822	459	10736	for/--L	449	4822	423	40865	for/--R	

449	4822	423	40867	for--L	
451	4822	535	50079		
452	4822	321	10105	for/00	
452	4822	321	10343	for/05	



-L-	
L101	4822 156
L102	4822 156
L121	4822 158
L131	4822 156
L151	4822 242
L152	4822 242
L153	4822 156
L154	4822 156
L155	4822 157
L156	4822 157
L251	5322 157

-R-	
R184	4822 100
R218	4822 100
R219	4822 100

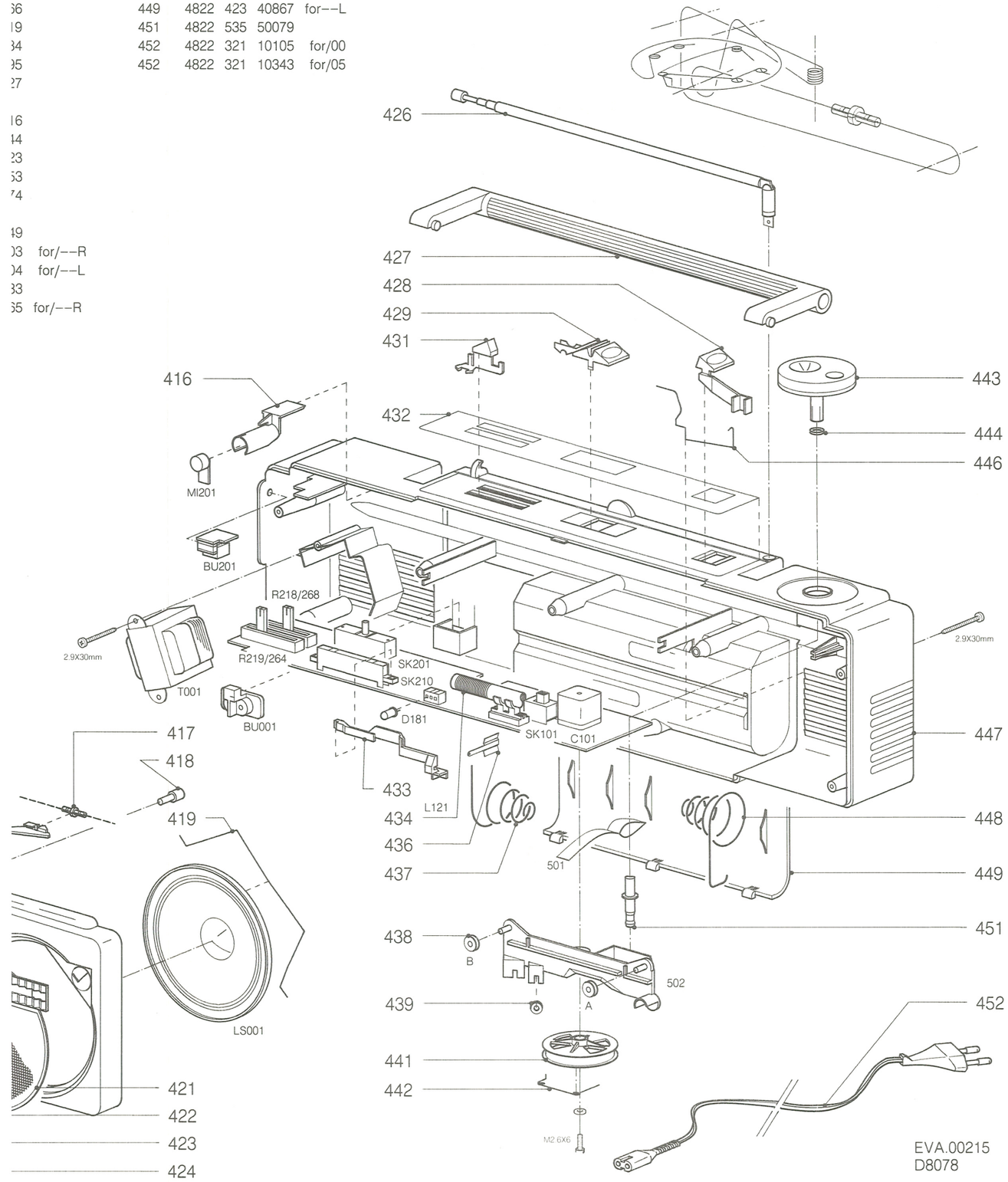
-C-	
C101	4822 125

-IC-	
	4822 209
	4822 209
	4822 209
	4822 209

Ca 0.2
Ca 0.3
M 0.3
Ca 0.5
Ca 0.6
Ca 1.

© Chip compo

36	449	4822	423	40867	for--L
19	451	4822	535	50079	
34	452	4822	321	10105	for/00
35	452	4822	321	10343	for/05
27					
16					
14					
23					
53					
74					
49					
03	for/--R				
04	for/--L				
33					
35	for/--R				



-L-		
L101	4822 156 30947	
L102	4822 156 30947	
L121	4822 158 60519	Ferroceptor
L131	4822 156 30671	
L151	4822 242 70249	Ceram filter
L152	4822 242 70249	Ceram filter
L153	4822 156 10726	
L154	4822 156 10726	
L155	4822 157 52693	
L156	4822 157 50965	
L251	5322 157 51718	

-R-		
R184	4822 100 11088	Potm. trimmer
R218	4822 100 11089	Potm. slide
R219	4822 100 11089	Potm. slide

-C-		
C101	4822 125 20285	Cap. variable

-IC-		
	4822 209 70998	AN7148
	4822 209 70997	AN7312
	4822 209 83105	BA1332
	4822 209 81563	TEA5570

-TS-		
	4822 130 41344	BC337-40
	4822 130 40938	BC548
	4822 130 40948	BC548A
	4822 130 44196	BC548C
	4822 130 44358	BC559B
	4822 130 60093	2SA838B
	4822 130 60095	2SC1674
	4822 130 60094	2SC1675

-D-		
	4822 130 30302	BA316
	4822 130 34278	BZX79-B6V8
	4822 130 60381	LN21RP-H
	5322 130 30684	1N4002
	4822 130 30621	1N4148

-Miscellaneous-		
BU001	4822 265 20318	
BU201	4822 267 30738	
LS001	4822 240 40122	AD4072/X4
MI201	4822 242 10054	
SK4	4822 278 90564	
SK101	4822 277 21041	
SK201	4822 277 30874	
SK210	4822 277 30857	
T 001	4822 146 30579	Transf, mains

	Carbon film 0.2 W	70°C	5%
	Carbon film 0.33 W	70°C	5%
	Metal film 0.33 W	70°C	5%
	Carbon film 0.5 W	70°C	5%
	Carbon film 0.67 W	70°C	5%
	Carbon film 1.15 W	70°C	5%

Ⓒ Chip component

	Ceramic plate Tuning ⩽ 120 pF NP.0	2%
	Others	—20/+80%
	Polyester flat foil	10%
	Metalized polyester flat film	10%
	Polyester flat foil small size (Mylar)	10%
	Polysterene film/foil	1%
	Tubular ceramic	
	Miniature single	
	Subminiature tantalum	± 20%

*a	=	2,5 V
b	=	4 V
c	=	6,3 V
d	=	10 V
e	=	16 V
f	=	25 V
g	=	40 V
h	=	63 V
j	=	100 V
l	=	125 V
m	=	150 V
n	=	160 V
q	=	200 V
r	=	250 V
s	=	300 V
t	=	350 V
u	=	400 V
v	=	500 V
w	=	630 V
x	=	1000 V
A	=	1,6 V
B	=	6 V
C	=	12 V
D	=	15 V
E	=	20 V
F	=	35 V
G	=	50 V
H	=	75 V
I	=	80 V

SK101/102/201						
FM-IF						
FM Stereo	10.7 MHz △f=500 kHz (50Hz)	Ⓑ	No reception	L155	① 1	
FM-RF						
FM 87.5-108 MHz	87.35 MHz Mod 1kHz △f=22,5 kHz	Ⓑ	Max Cap	L102*** L101***		① max
	108.3 MHz Mod 1 kHz △f=22.5 kHz		Min Cap	C101c C101d		
AM-IF						
LW	468 kHz*	Ⓒ	Max Cap	L153 L154		① Max
AM-RF						
LW 148.5-283,5 kHz	148 kHz*	Ⓐ	Max Cap	L131		① Max
MW	1635 kHz*		Min Cap	C101a		① Max
LW	200 kHz*		↕	L122		① max
MW	550 kHz*		↕	L121		① Max
	1500 kHz*		↕	C101b		

↕ Repeat-Herhalen-Répéter-Wiederholen-Repetera-Ricomminiare-Gentage
*Mod 1 kHz 30% AM

Stereo-Decoder

FM-SK101	no signal	③	R184	② freq counter 19 kHz ±50Hz

***Trimming rod 4822 395 50135

(GB)
1 Adjust for symmetry and max. height.

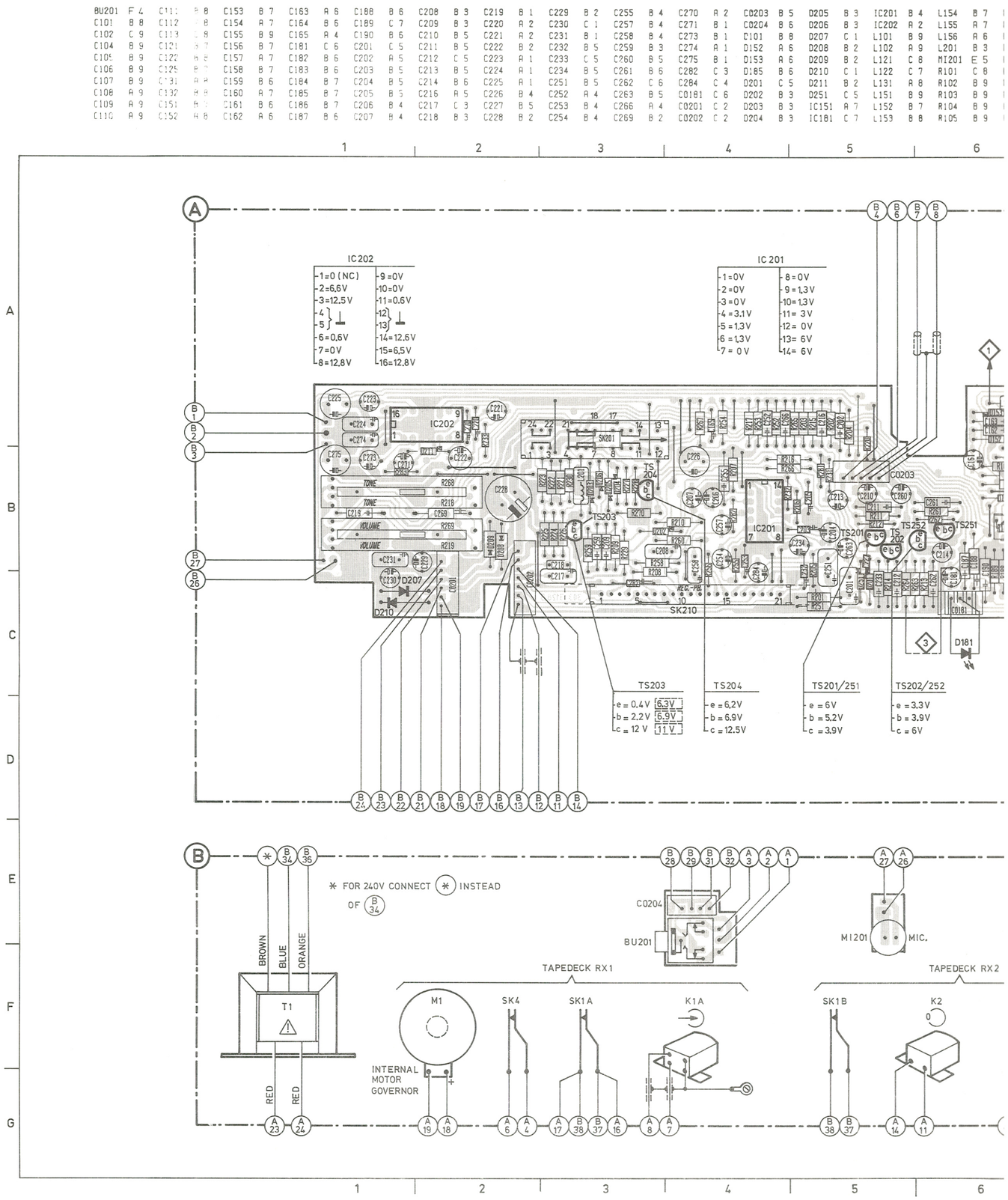
(F)
1 Régler au symétrie et maximum.

(NL)
1 Regel de band kromme af op symmetrie en max. hoogte.

(D)
1 Auf maximale Höhe und Symmetrie der Bandkurve einstellen.

(I)
1 Regolare per pendenza massima e per simmetria.

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".



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